



Karnatak University's,
KARNATAK SCIENCE COLLEGE, DHARWAD
NAAC Accredited



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7.2.1: Best Practices:

Encouraging Students in Research & Development and create scientific temper

Objective of the practice are to

- i) Create scientific curiosity this makes students to think for developing new techniques, which is very much required for the current situation also this takes student to dedicate or commit for working in the direction of ATHMANIRBHAR BHARAT
- ii) Expose B.Sc and M.Sc students to the emirates Professor from IITs and other Premier institutes by arranging seminars and lecture series.
- iii) Creating platform for the students to interact with the scientist who are working in the cutting edge research
- iii) Arrangement of the students to visit Industry and R & D centers to inculcate interest on Science and Technology through study tour.

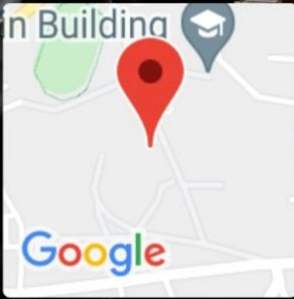
Context:

Although with updated academic syllabus and practical experience, it is difficult for getting students attention towards R & D. Most of the time students may not be aware of the advanced technologies, which are adopted in the large scale industry and cutting edge research happening around the globe. Hence, it is the institutional responsibility to create platform in such a way that students should get opportunity to interact with scientists. In this context the Institute instituted the study circle in major departments viz., Chemistry, Physics, Botany, Zoology, Geology, Geography and Forensic Science and Criminology and Computer Science. From the department of Chemistry under Madam Curie study circle, the lecture was arranged on processing technology. Dr. Shivakumar Angadi, Principal Scientist and Associate Professor, Academy of Scientific and Innovative Research (ACSIR) , Mineral processing department, CSIR-Institute of Minerals and Materials Technology, Bhubaneswar, Orissa gave a lecture on

Mineral Processing-A rare and Unique Profession. The B.Sc VI semester students were taken to PEPSI Co-limited. The students were able to see how a small piece of plastic/fibre takes a shape of different sizes of bottles. Students interacted with the head of R and D centre to know, before releasing the product into the market how they will undergo quality assessment test. From the Department of Forensic Science and Criminology, students of B.Sc. III sem were taken for suburban police station, Dharwad, to practically experience the structure and organization of police station, administration of police station and to know the working and function of police station. The students were interacted with police sub-inspector Mr. Patil, PSI and Mrs. Laxmi PSI. The students were inspired and excited by real time existing investigation process. The students were exposed to the practical and on field aspects of the criminology and forensic science. From the Department of Physics, to encourage the students to get into recent development in the field of physics, in association with the Indian association of Physics the students were encouraged to appear for National Graduate Physics Examination. The students who qualified in this examination were sent for workshop/ training programme in premier research institutes. From the department of Zoology, selected students were encouraged to taken up research on bioremediation of Cadmium and Chromium from Industrial effluents by indigenous bacteria under the guidance of Mr. Ambarish Sindagi. The students were encouraged to participate in Indian Young Innovators and Inventors Challenge (IYIIC) Regional IYIIC-2021 held on 16th and 17th April 2022 at Gulbarga, organized jointly by National Council for Science and Technology Communication (Department of Science and Technology), Government of India, New Delhi, NOSTC (Network of Organization for Science, Technology and Communication), New Delhi and Karnataka Rajya Vijnana Parishat (KRVP) at Gulbarga University, Kalburgi. In this regional IYIIC, the students presented poster and awarded as Best Juvenile Innovator/Inventor and got selected for the National Event of IYIIC held on 27th and 28th May 2022 at Sigma University, Vadodara, Gujarat.

Evidence of Success: Due to great encouragement in research and development among graduate level, students are actively involved in conducting research along with their studies. This has been shown by getting selected in IYIIC and to grab best juvenile innovator award and to participate in next level research programme.

Problems encountered. Nil



Dharwad, Karnataka, India

FX2X+XHG, Malmaddi, Dharwad, Karnataka 580001, India

Lat 15.452284°

Long 74.998907°

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Dr. Shivakumar Angadi, Scientist and Associate Professor, Academy of Scientific and Innovative Research (ACSIR), Bhubaneswar, explaining the importance of mineral processing.



Mr. Patil, Police Sub Inspector, Dharwad Suburban police station giving inspirational speech on real time investigation to the Criminology and Forensic students. .

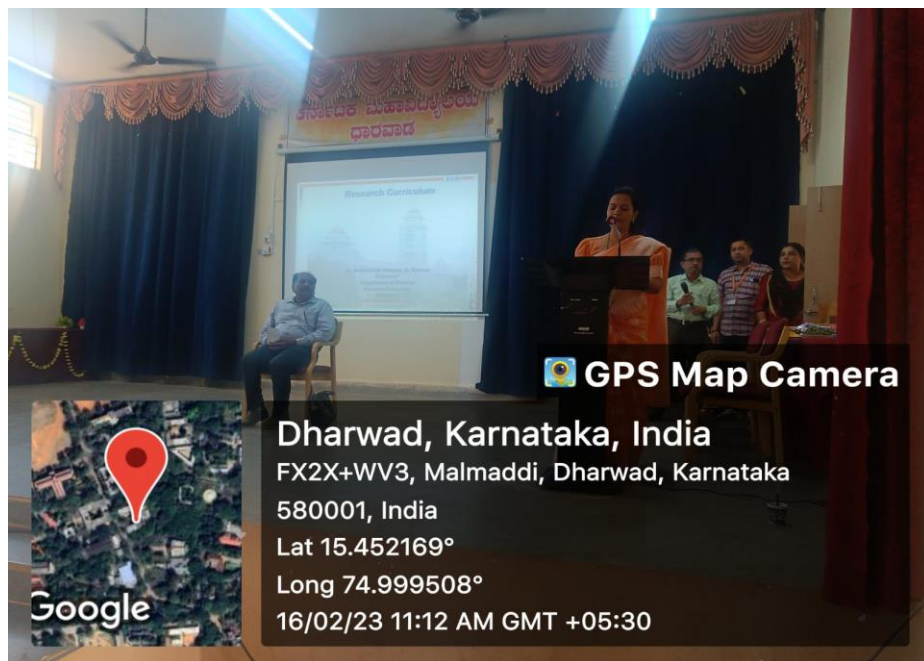
**Microbiology Students Achievements at INDIAN YOUNG INNOVATORS AND INVENTORS CHALLENGE (IYIIC)
Regional IYIIC – 2021 held 16th and 17th April 2022 at Gulbarga University, Kalburgi, Karnataka.**



Two day workshop on Research Methodology : Two Days Workshop was organized on Research Methodology for all the PG Students of Physics, Chemistry, Mathematics and Botany subjects on 15th and 16th Feb, 2023.



Dr. Nilkamal Mahanta, Head, Department of Chemistry, IIT - Dharwad delivering a invited talk.



Staff of the College introducing the Resource person



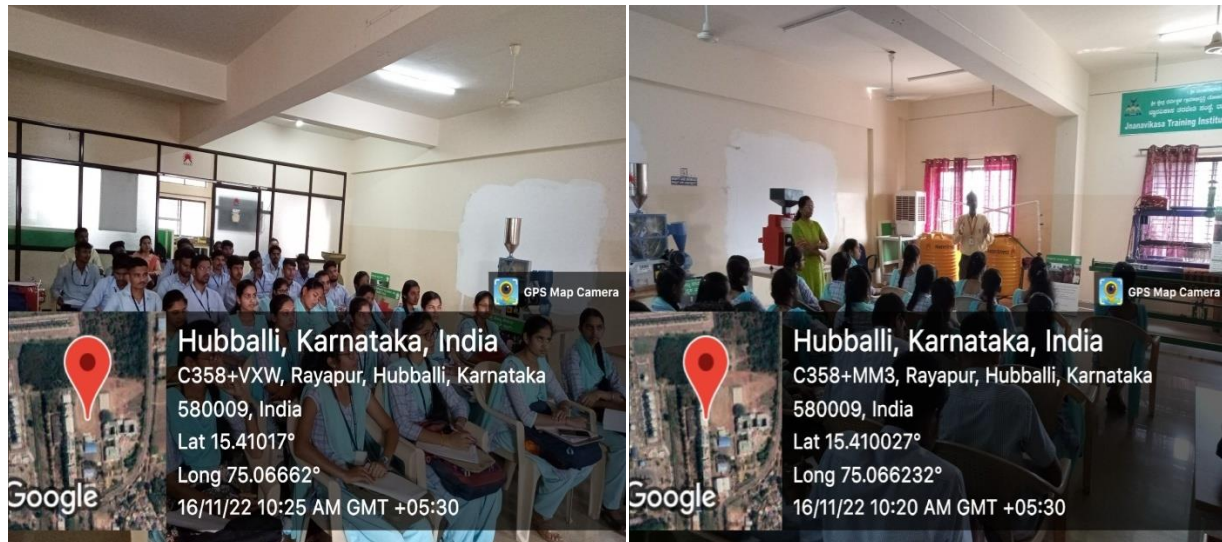
Dr. M. K. Rabinal, Professor, Department of Physics, Karnatak University, Dharwad giving a lecture.



Dr. Koushik Saha, Assistant Professor, Department of Physics, IIT Dharwad, delivered lecture on the History of Evolution of Science and Physics.

ONE DAY WORKSHOP AND TRAINING PROGRAM ON RENEWABLE ENERGY SOURCES AND SOLAR POWER

On 16th November 2022, B.Sc. students from our college, accompanied by four faculty members, visited the "**Jnanavikasa Orientation & Training Institute**" located at the SELCO Solar Light Pvt Ltd, Campus in Rayapura, Hubballi. The purpose of the visit was to receive training on solar lighting and power systems. The students were enhanced their knowledge of solar lighting and power systems.



Our students participated in the orientation and training programme organized at Selco solar light Pvt.campus, Rayapu, Hubballi

SELCO Solar Light Private Limited, Jnanavikasa Orientation and Training Institute Rayapur Dharwad

Our students are taken to visit SELCO Solar Light Private Limited, Jnanavikasa Orientation and Training Institute located in Rayapur, Dharwad on Thursday 29th December 2022 . The objective of the institute is to give self employment to the youth which are not connected to main stream.





Mr. Syed one of the trainer have demonstared working of solar pannel



Smita Mudhol, Manager Selco Solar Pvt.Ltd Giving Demo

Title of paper	Name of the author/s	Department of the teacher	Name of journal	ISSN number
Cannabis sativa:Botany,Cross Pollination and Plant Breeding Problems	Prof.Kiran.P.Kolkar	Department of Botany	Cannabis sativa Botany	2454-6194
Cannabis sativa: The Difference between Δ9-Tetrahydrocannabinol(THC)	Prof.Kiran.P.Kolkar	Department of Botany	Cannabis sativa Botany	2582-6131
Medical Cannabis sativa(Marijuana or drug type):Psychoactive molecule,Δ9-Tetrahydrocannabinol(Δ9-THC)	Prof.Kiran.P.Kolkar	Department of Botany	Medical Cannabis sativa(Medical or drug type)	2454-6194
Medical Cannabis sativa(Marijuana or drug type):The story of dicoverly of Δ9-Tetrahydrocannabinol(Δ9-THC)	Prof.Kiran.P.Kolkar	Department of Botany	Cannabis Botany:Psychoactive constituent	2582-6131
Cannabis Sativa:EthnoBotany and PhytoChemistry	Prof.Kiran.P.Kolkar	Department of Botany	Cannabis sativa Botany	2582-6131
Outbreak of lumpy skin viral disease of Cattle and buffalo in India in 2022:Ethnoveterinary Medicine Approach	Prof.Kiran.P.Kolkar	Department of Botany	Lumpy Skin Disease	2582-6131
Ecological Impacts of Invasive Alien Flora in Devarayanadurga Reserve Forest, Tumakuru District, Karnataka	Prof.Kotresha K	Department of Botany	Journal of Plant Science & Research	2349-2805
Luisia trichorrhiza (Orchidaceae-Vandaeae): A new addition to Karnataka, India	Prof.Kotresha K	Department of Botany	wild epiphytic orchid	ISSN (Print) : 0976-5069 ISSN (Online) : 2455-376X
Distribution of Shorea roxburghii G. don (Dipterocarpaceae) in tropical dry deciduous forests of Tumakuru district, Karnataka	Prof.Kotresha K	Department of Botany	Shorea roxburghii G. Don	Online ISSN: 2664-7133, Print ISSN: 2664-7125

Dendrobium panduratum Lindl. (Orchidaceae): Two Subspecies Additional Record to Karnataka, India	Prof.Kotresha K	Department of Botany	Annals of Plant Sciences	ISSN: 2287-688X
Stachytarpheta cayennensis (Rich.) Vahl (Verbenaceae): A New Record for Karnataka State, India	Prof.Kotresha K	Department of Botany	Annals of Plant Sciences	ISSN: 2287-688X
Zeuxine reflexa (Orchidaceae-Goodyerinae), a new addition to Peninsular India	Prof.Kotresha K	Department of Botany	Journal of the Indian Association for Angiosperm Taxonomy	ISSN: 0971-2313 (Print edition) ISSN: 2582-2438 (Online edition)
FLORISTIC DIVERSITY OF JNANA TUNGA CAMPUS, YARGERA, RAICHURU DISTRICT, KARNATAKA	Prof.Kotresha K	Department of Botany	Journal of Global Biosciences	ISSN 2320-1355
Limnocharis Bonpl. (Alismataceae): A new generic record to Karnataka state, India	Prof.Kotresha K	Department of Botany	genus Limnocharis Bonpl. (Alismataceae)	ISSN (Print) : 0976-5069 ISSN (Online) : 2455-376X
Geodorum Laxiflorum Griff. (Orchidaceae): a new addition to flora of Karnataka, India	Prof.Kotresha K	Department of Botany	record of Geodorum laxiflorum Griff	ISSN (Print) : 0976-5069 ISSN (Online) : 2455-376X
Solute-solvent interaction and DFT studies on bromonaphthofuran 1, 3, 4-oxadiazole fluorophores for optoelectronic applications	Prof. G. H. MALIMATH	Department of Physics	Journal of Molecular Graphics and Modelling,	
Saussurea obvallatta leaves extract as a potential eco-friendly corrosion inhibitor for mild steel in 1 M HCl	Prof. G. H. MALIMATH	Department of Physics	Inorganic Chemistry Communications	143(2-3):109799

Effect of expired doxofylline drug on corrosion protection of soft steel in 1 M HCl: Electrochemical, quantum chemical and synergistic effect studies	Prof. G. H. MALIMATH	Department of Physics	Journal of the Indian Chemical Society,	
Studies on the Characterisation of Thiophene Substituted 1, 3, 4-oxadiazole Derivative for the Highly Selective and Sensitive Detection of Picric Acid	Prof. G. H. MALIMATH	Department of Physics	Journal of Molecular Structure	
Humidity sensing behaviour of Rubidium-doped Magnesium ferrite for sensor applications	Prof. G. H. MALIMATH	Department of Physics	Journal of Material Science:Materials in Electronics	
Interactions of Environmental Pollutant Aromatic Amines with photoexcited states of Thiophene Substituted 1, 3, 4-Oxadiazole Derivative: Fluorescence quenching studies	Prof. G. H. MALIMATH	Department of Physics	Journal of Fluorescence,	9493-4549
Experimental investigation of the structural features of polycarbonate (PC) filled with bismuth nitrate pentahydrate (BNP) composite films in terms of free volume defects probed by positron annihilation lifetime spectroscopy	Prof.Blaise Lobo	Department of Physics	Applied Radiation and Isotopes	ISSN:0969-8043
Variation of optical parameters of physically stacked polyvinylidene chloride films with thickness and wavelength	Prof.Blaise Lobo	Department of Physics	Materials Today:Proceedings	ISSN:2214-7853

Morphological, linear and nonlinear optical characteristics of PVA/Ac–PVP blend filled with nanoparticles of titania	Prof.Blaise Lobo	Department of Physics	Bulletin of Materials Science	ISSN (Print):0250-4707 ISSN(Online): 0973-7669
Structural, AC and DC Electrical Transport Properties of Nano Titania-Polyacrylamide Composite Films	Prof.Blaise Lobo	Department of Physics	Indian Journal of Pure & Applied Physics (IJPAP)	ISSN(Online): 0975-1041 ISSN(Print):0 019-5596
Experimental investigations on Nano Titania-Polyacrylamide Composite Films	Prof.Blaise Lobo	Department of Physics	Journal of Scientific Research	0447-9483
Optical properties of UV-C irradiated polyvinylidene choride films	Prof.Blaise Lobo	Department of Physics	Radiation Physics and Chemistry	ISSN:0969-806X
Concentration of Settlement in Vijayapur District: Using Quadrant Techniques.	Prof.L.T.Nayak	Department of Geography	International Journal of Science and Research	ISSN- No.2319-7064
Fenoxapro-P-Ethyl induced Biochemical changes in Fresh water Fish Cyprinus carpio under Sublethal Exposure	Prof.Rajeshwari D. Sanakal	Department of Zoology	East African Scholars Journal of Agriculture and Life Sciences	ISSN 2617-4472 (Print) ISSN 2617-7277 (Online)
Studies on the Physico-chemical Parameters of Soil Samples at the Vicinity of Sugar and Fertilizer Industries in Karnataka	Prof.Rajeshwari D. Sanakal	Department of Zoology	Research Journal of Agricultural Sciences	P- ISSN: 0976-1675 E- ISSN: 2249-4538
Sequential transformation of copper to porous copper (I) sulfide as superior electrode for supercapacitor	Prof.Jyothi S. Doddamani	Department of Physics	Journal of Electroanalytical Chemistry	

Role of Teachers in the successful implementation of NEP-2020	Prof V .B Saviramath	Department of Geography	Aayushi International Interdisciplinary Research Journal	2349-638x
Development and Politics of North Karnataka	Prof V .B Saviramath	Department of Geography	Development and Politics of North Karnataka(A Bilingual Analysis)	978-81-961912-0-7
Effect of Schiff's Bases on corrosion protection of Mild Steel in Hydrochloric Acid Medium: Electrochemical,Quantum Chemical and surface Characterisation Studies	Prof Rajappa S.K	Department of Chemistry	Chemical Engineering Journal Advances	
Effect of expired doxofylline drug on corrosion protection of soft steel in 1 M HCl: Electrochemical, quantum chemical and synergistic effect studies	Prof Rajappa S.K	Department of Chemistry	Journal of the Indian Chemical Society,	
Saussurea obvallatta leaves extract as a potential eco-friendly corrosion inhibitor for mild steel in 1 M HCl	Prof Rajappa S.K	Department of Chemistry	Inorganic Chemistry Communications	143(2-3):109799
Recent updates on role of herbal medicine for Alzheimer's disease (Dementia)	Prof.Kiran.P.Kolkar	Department of Botany		
Melatonin: One molecule one-medicine for many diseases, coronavirus (SARS-CoV-2) disease (Covid-19); Function in plants	Prof.Kiran.P.Kolkar	Department of Botany	International Journal of Research and Scientific Innovations	
Vaccine development for coronavirus (SARS-CoV-2) disease (Covid-19): Lipid nanoparticles	Prof.Kiran.P.Kolkar	Department of Botany	International Journal of Research and Scientific Innovations	
Role of botanical essential oils as a therapy for controlling coronavirus (SARS-CoV-2) disease (Covid-19).	Prof.Kiran.P.Kolkar	Department of Botany	International Journal of Research and Scientific Innovations.	

Camphor tree, Cinnamomum camphora (L.); Ethnobotany and pharmacological updates	Prof.Kiran.P.Kolkar	Department of Botany	Biomedicine	
recent update on leishmaniasis: Kala-azar outbreak, Risk factor and herbal treatment	Prof.Kiran.P.Kolkar	Department of Botany	Plant Biol,	
Outbreak of Coronavirus (SARS-CoV-2) Delta variant (B. 1.617. 2) and Delta Plus (AY. 1) with fungal infections, Mucormycosis: Herbal medicine treatment.	Prof.Kiran.P.Kolkar	Department of Botany	International Journal of Research and Scientific Innovations.	
Role of plant based hand sanitizers during the recent outbreak of coronavirus (SARS-CoV-2) disease (Covid-19).	Prof.Kiran.P.Kolkar	Department of Botany	Significances of Bioengineering & Biosciences.	
An age old botanical weapon for herbal therapy: Camphor tree, Cinnamomum camphora.	Prof.Kiran.P.Kolkar	Department of Botany	International Journal of Research and Scientific Innovations.	
Traditional Herbal Folk Medicine Used for Controlling CORONA Virus (SARS-CoV-2) Disease (Covid-19)	Prof.Kiran.P.Kolkar	Department of Botany	International Journal of Research and Scientific Innovations.	
Triphala:An Indian Ayurvedic herbal formulation for Coronavirus(SARS-CoV-2)disease (Covid-19).	Prof.Kiran.P.Kolkar	Department of Botany	Int.J.Curr.Res.Biosci.Plant Biol	
The iconic Baobab (Adansonia digitata L.): Herbal medicine for controlling coronavirus (SARS-CoV-2) disease (Covid-19).	Prof.Kiran.P.Kolkar	Department of Botany	International Journal of Innovation Scientific Research and Review	
Natural plant gum exudates and mucilage: pharmaceutical updates	Prof.Kiran.P.Kolkar	Department of Botany	Int J Innov Sci Res	

N-Ethyltetramethylguanidinium IL [ETMG][EtOSO₃] as Organocatalyst and Solvent for Facile Amide Synthesis by Formyl-Transfer with N-Formyl-saccharin and Mechanistic Insights	Dr. Rajesh G. Kalkhambkar	Department of Chemistry	Tetrahedron Letters	
Ultrasonication aided copper-catalyzed facile synthesis of highly functionalized aryl sulphones in guanidinium ionic liquid (GIL)	Dr. Rajesh G. Kalkhambkar	Department of Chemistry	ChemistrySelect(Accepted for Publication)	
Tropylium-BF₄ as Organocatalyst for Efficient Synthesis of Nitriles from Aldoximes; Synthetic Scope and Mechanistic Insights	Dr. Rajesh G. Kalkhambkar	Department of Chemistry	ChemistrySelect(Accepted for Publication)	
Microwave and Ultrasonic-Assisted Synthesis of Highly Functionalized Carbazoles and Dibenzofurans from Biaryl-Triazenes Promoted by Acidic ionic Liquid	Dr. Rajesh G. Kalkhambkar	Department of Chemistry	ChemistrySelect(Accepted for Publication)	
Molecular modeling and In vitro antimicrobial evaluation of some 2-Aryl-Benzoxazoles/Benzothiazole analogues containing alkyl, alkenyl and alkynyl linkages	Dr. Rajesh G. Kalkhambkar	Department of Chemistry	Chemical Data Collections	
Synthesis, In vitro and theoretical studies on newly synthesized deep blue emitting 4-(p-methylphenylsulfonyl-5-aryl/alkyl)oxazole analogues for biological and optoelectronic applications	Dr. Rajesh G. Kalkhambkar	Department of Chemistry	Journal of molecular liquids	
In vitro Antimicrobial Combat, Molecular Modelling and Structure Activity Relationship Studies of Novel Class of Aryl-ethyne Tethered	Dr. Rajesh G. Kalkhambkar	Department of Chemistry	European Journal of Medicinal Chemistry Reports	

Coumarin analogues and Some 3-Aryl Coumarin derivatives				
Recent Advances in the Synthesis of Diverse Libraries of Small Molecule Building Blocks in Ionic Liquids (ILs)	Dr. Rajesh G. Kalkhambkar	Department of Chemistry	Synlett	
Ultrasonication Assisted α-Arylation of N-heteroarenes Employing 1-Aryltriazenes Promoted by Brønsted Acidic Ionic Liquid Under Aerobic Conditions	Dr. Rajesh G. Kalkhambkar	Department of Chemistry	ChemistrySelect	
In silico molecular docking and In vitro antimicrobial evaluation of some C5- substituted imidazole analogues	Dr. Rajesh G. Kalkhambkar	Department of Chemistry	European Journal of Medicinal Chemistry Reports	
Facile Synthesis of Libraries of Functionalized Cyclopropanes and Oxiranes Using Ionic Liquids - A New Approach to the Classical Corey-Chaykovsky Reaction	Dr. Rajesh G. Kalkhambkar	Department of Chemistry	Tetrahedron Letters	
WILD MEDICINAL PLANTS OF RANEBENNUR BLACKBUCK SANCTUARY, HAVERI DISTRICT, KARNATAKA, INDIA	Prof.Kotresha K	Department of Botany	Journal of economic and taxonomic Botany	ISSN:0250-9768
Chiloschista confusa M. J. Mathew, J. Mathew, P.M. Salim & Szlach. (Orchidaceae): A New Addition to Karnataka, India	Prof.Kotresha K	Department of Botany	Annals of Plant Sciences	ISSN: 2287-688X
RIPARIAN VEGETATION OF TUNGABHADRA RIVER IN KOPPAL DISTRICT, KARNATAKA: NEED FOR CONSERVATION	Prof.Kotresha K	Department of Botany	Journal of Global Biosciences	ISSN 2320-1355

Ethnomedicinal Plants Used in the Treatment of Gynecological Disorders by the Traditional Health Practitioner in Bagalkot District, Karnataka, India	Prof.Kotresha K	Department of Botany	Journal of Plant Science & Research	ISSN: 2349-2805
Ethnobotanical Information for the Treatment of Snake Bite and Scorpion Stings by Traditional Health Practitioners in Bagalkot District, Karnataka, India	Prof.Kotresha K	Department of Botany	Annals of Plant Sciences	ISSN: 2287-688X
Rediscovery and taxonomic note on <i>Oberonia bellii</i> Blatt. & McCann (Orchidaceae) in Karnataka after nine decades	Prof.Kotresha K	Department of Botany	J. Indian bot. Soc.	e-ISSN:2455-7218, ISSN:0019 - 4468
Does <i>Habenaria hollandiana</i> Santapau (Orchidaceae) Exists?	Prof.Kotresha K	Department of Botany	SPECIES	pISSN 2319–5746; eISSN 2319–5754

Best Practice II

Title of the Practice: Solid waste management and eco friendly campus

Objectives: Karnatak Science College has a wide spread green campus, with fifty four acres, having good green cover. To maintain cleanliness in the campus, it has adopted a best practice called " Solid waste management and creating eco-friendly campus"

- i. To meet out the requirements of green and clean campus, waste generating places have been identified; in fact, some measures have been designed and implemented in order to maintain cleanliness in the college campus.
- ii. Dustbins have been provided to segregate wet and dry solid waste at the identified locations in the campus.
- iii. Dry waste is emptied in collaboration with the city municipal corporation, and the wet waste is used for composting .
- iv. The compost generated is used in the botanical garden of the college.
- v. Awareness has been created among the students about the impact of cleanliness on health and well-being of individuals present in the campus.
- vi. Waste management is achieved in a non-polluting and responsible manner.
- vii. All the departments in the campus are responsible to maintain greenery, by way of plantation drives and also by nurturing the existing plants in the campus.
- viii Establishment of renewable energy sources like roof-top solar power plants in the campus is being attempted.
- ix. Campus green auditing and carbon-sequestration as been taken up.
- x. Collection and proper maintenance of e-waste are done.

Context:

- i. Since our college campus is very large with around Two thousand students studying in various departments, the generation of solid waste is natural. Hence, it is essential to develop protocols and healthy practices to ensure a pollution free campus.

ii. In fact, light weight dry waste is subjected to disperse in the campus due to strong winds, thereby creating an unhealthy environment. Therefore, the light weight dry waste needs to be collected, before its proper disposal by scientific segregation and disposal methodologies.

iii. To reduce energy dependency by using renewable resources.

iv. To conserve and enrich the ground water by adopting rain water harvesting strategies.

v. To recycle wet waste, by converting it into a compost, and later using it as manure in the garden present within the campus.

4. The Practices: Solid waste management and creating a eco-friendly campus is a healthy practice in our college campus. Hence, the campus is green and clean, thereby attracting a large number of members of the public, who enjoy exercising in the campus, breathing the fresh air.

i. Waste generating locations like cafeteria, students home, laboratories, vehicle parking slots, hostels, bank, health centre, among many other locations have been identified and dustbins are installed for the collection of waste. In fact, the collected waste is segregated at the place of collection itself. Dry solid waste is emptied by the municipal corporation, whereas the wet waste is dumped in pits bor coposting, and compost is used for the garden. The e-waste is emptied by the personnel identified by Karnatak University, Dharwad.

ii. Harnessing Solar Energy:

a. Installed capacity in hostels: 6 Solar Hot water units of 500 litre each capacity (equivalent to 120 electric geysers of 25 litre capacity each)

b. One Solar panel to recharge UPS system of 2kVA capacity.

c. Eleven Solar street lights are provided in the campus.

iii. Rain water harvesting: Each department is harvesting rain water to reduce the water requirement and use it for various purposes, particularly in the laboratories and for gardens. There are four rainwater harvesting pits with the standard plot area 200 Sqmt, required volume of 4.0 Cumt rain water harvesting pit with the dimension of 2.0 mts are provided in the campus.

5. Evidences of Success: The practice of solid waste management and creating eco-friendly Green campus has made a significant impact, by creating a pollution free campus. Some of the evidences are listed as follows.

i. This process has created a plastic free and green campus which has supported the teaching and learning process by creating a suitable environment.

ii. The process of carbon sequestration reveals the reduction of carbon dioxide concentration in the atmosphere of the campus.

iii. Harnessed solar energy has reduced our dependency of non-renewable energy sources like electricity. This facility has benefited nearly 700 girl students in the hostel.

iv. 2kVA Solar energy recharging UPS has been installed, and it can be used for four hours, uninterruptedly.

v. Harvested rain water has enriched the ground water situation and the excess amount of water is used for gardening.

Problems Encountered and Resources Required:

i. Problems encountered: NIL

ii. Resources Required: The college meets out the expenses incurred for this activity from its internal resources.



Plantation in Karnatak Science College, by then Principal Dr. Bellad.

1. Solid Waste Management:



Waste disposal dustbin




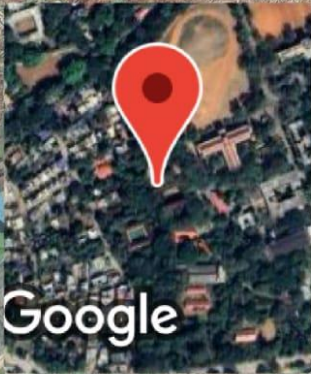
Collection of solid waste from the bins by the HDMC employee



Vermi Culture



 GPS Map Camera



Dharwad, Karnataka, India

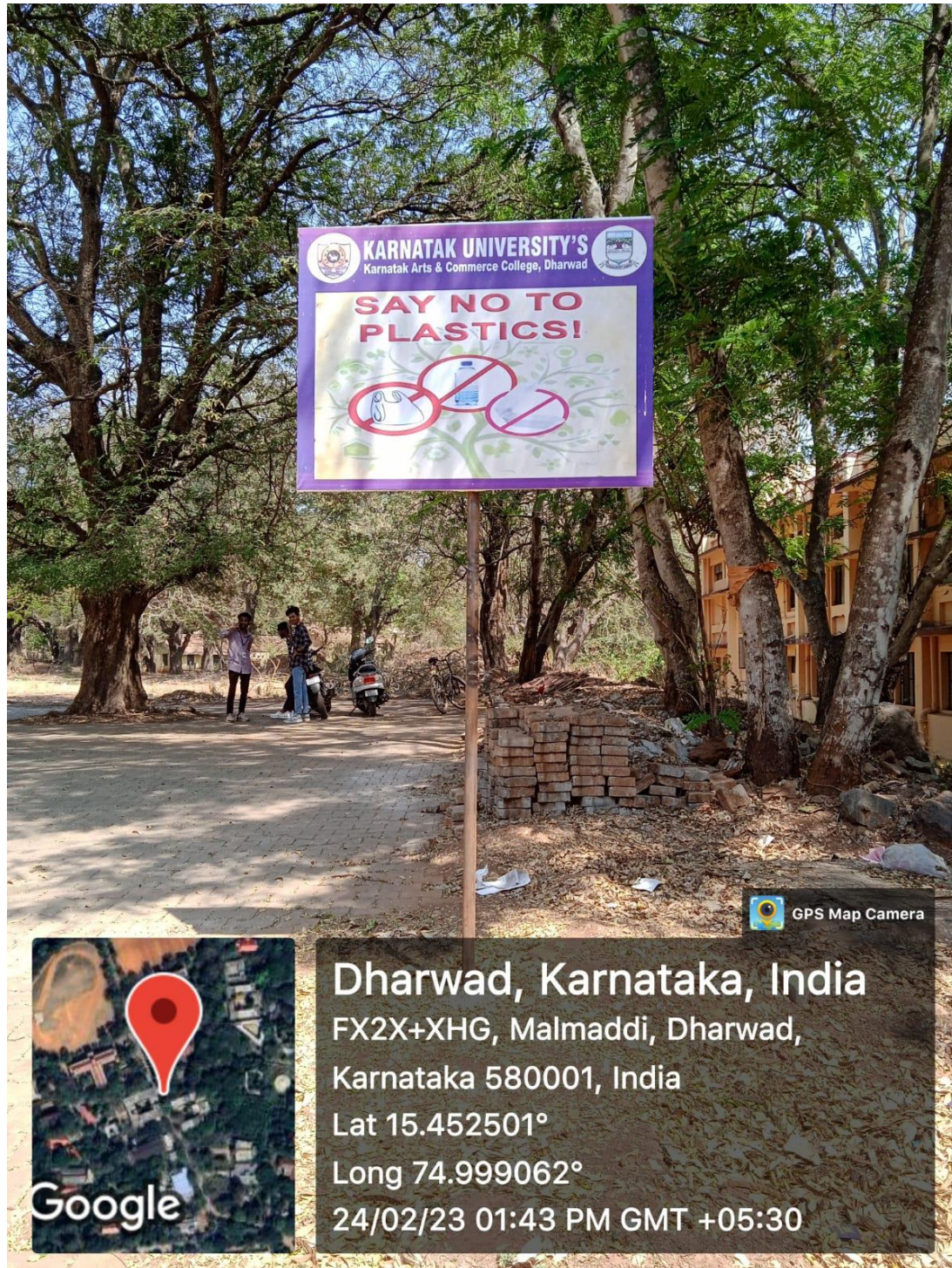
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Karnataka 580001, India

Lat 15.452404°

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Rain water harvest in the department of Zoology.



Awareness on not to use single use plastics in the campus.



Solar heater installed in the Kaveri hostel